

L Number	Hits	Search Text	DB	Time stamp
1	3644	genetic near3 algorithm	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/06/10 15:17
2	15210	xml or (extensible near markup near language)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/06/10 15:17
3	90	(genetic near3 algorithm) and (xml or (extensible near markup near language))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/06/10 15:17
4	314	(genetic near2 search) near2 algorithm	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/06/10 15:19
5	6	(xml or (extensible near markup near language)) and ((genetic near2 search) near2 algorithm)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/06/10 15:19
6	217	(706/13).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/06/10 15:23
-	1841	genetic near3 algorithm	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/06/10 15:17
-	3167	xml or (extensible near markup near language)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/06/10 15:17
-	185	(crossover or (cross near over)) near3 operator	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2002/08/07 11:42
-	179	mutation near3 operator	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/11/17 09:07
-	736	tree near3 operator	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/02/08 17:15
-	19	(genetic near3 algorithm) and (xml or (extensible near markup near language))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2002/08/07 11:44
-	16	((genetic near3 algorithm) and (xml or (extensible near markup near language))) and (interface or GUI)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/02/08 17:14
-	175	(genetic near2 search) near2 algorithm	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/06/10 15:19

-	898	tree near3 operator	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/17 09:07
-	77	(genetic near3 algorithm) and (xml or (extensible near markup near language))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/17 09:58
-	69	((genetic near3 algorithm) and (xml or (extensible near markup near language))) and (interface or GUI)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/17 09:57
-	6	(xml or (extensible near markup near language)) and ((genetic near2 search) near2 algorithm)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/17 09:08
-	189	(706/13).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/17 09:08
-	481	(genetic near3 algorithm) and (search and internet)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/17 09:08
-	18	((706/13).CCLS.) and ((genetic near3 algorithm) and (search and internet))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/17 09:09
-	77	(genetic near3 algorithm) and (xml or (extensible near markup near language))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/17 09:51
-	69	((genetic near3 algorithm) and (xml or (extensible near markup near language))) and (interface or GUI)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/17 09:51
-	270	(genetic near2 search) near2 algorithm	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/17 09:57
-	124	((genetic near2 search) near2 algorithm) and (interface or GUI)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/17 09:57
-	5	(xml or (extensible near markup near language)) and (((genetic near2 search) near2 algorithm) and (interface or GUI))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/17 10:01
-	6	(xml or (extensible near markup near language)) and ((genetic near2 search) near2 algorithm)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/17 10:01
-	1	((xml or (extensible near markup near language)) and ((genetic near2 search) near2 algorithm)) not ((xml or (extensible near markup near language)) and (((genetic near2 search) near2 algorithm) and (interface or GUI)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/17 10:01

-	5006	genetic near2 (algorithm or program\$6)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/17 14:36
-	11277	xml or (extensible near markup near language)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/17 14:37
-	79	(genetic near2 (algorithm or program\$6)) and (xml or (extensible near markup near language))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/17 15:36
-	3327	genetic near3 algorithm	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/08 17:32
-	12875	xml or (extensible near markup near language)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/08 17:13
-	43375	search and internet	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/08 17:21
-	75	((genetic near3 algorithm) and (xml or (extensible near markup near language))) and (interface or GUI)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/08 17:14
-	62	((genetic near3 algorithm) and (xml or (extensible near markup near language))) and (search and internet)) and (interface or GUI)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/08 17:14
-	936	tree near3 operator\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/08 17:15
-	1	((genetic near3 algorithm) and (xml or (extensible near markup near language))) and (search and internet)) and (interface or GUI)) and (tree near3 operator\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/08 17:18
-	2	((genetic near3 algorithm) and (xml or (extensible near markup near language))) and (search and internet)) and (interface or GUI)) and dtd	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/08 17:16
-	28	((genetic near3 algorithm) and (xml or (extensible near markup near language))) and (search and internet)) and (interface or GUI)) and tree	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/08 17:18
-	3255	genetic near2 algorithm	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/08 17:57
-	84	(genetic near3 algorithm) and (xml or (extensible near markup near language))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/08 17:21

-	67	((genetic near3 algorithm) and (xml or (extensible near markup near language))) and (search and internet)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/08 17:22
-	288	((genetic near2 search) near2 algorithm)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/08 17:46
-	6	(xml or (extensible near markup near language)) and (((genetic near2 search) near2 algorithm))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/08 17:24
-	72	(genetic near3 algorithm) and xml and search	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/08 17:32
-	2	(xml or (extensible near markup near language)) and (((genetic near search) near algorithm))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/08 17:46
-	57	((genetic near search) near algorithm)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/08 17:47
-	11	(genetic near2 search) and xml	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/08 17:58



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Pages:4057 - 4064 vol.4

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Cheng-Fa Tsai; Hang-Chang Wu;
Systems, Man and Cybernetics, 2002 IEEE International Conference on , Volume: 6 , 6-9 Oct. 2002
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Jewell, M.O.; Nixon, M.S.; Prugel-Bennett, A.;
Web Delivering of Music, 2003. 2003 WEDELMUSIC. Proceedings. Third International Conference on , 15-17 Sept. 2003
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Pages:4057 - 4064 vol.4

[\[Abstract\]](#) [\[PDF Full-Text \(613 KB\)\]](#) [IEEE CNF](#)**2 MASS: an XML-based mobile agent system for distributed computing**

Cheng-Fa Tsai; Hang-Chang Wu;
Systems, Man and Cybernetics, 2002 IEEE International Conference on , Volume: 6 , 6-9 Oct. 2002
Pages:6 pp. vol.6

[\[Abstract\]](#) [\[PDF Full-Text \(406 KB\)\]](#) [IEEE CNF](#)**3 A novel laboratory version management system for tracking complex biological experiments**

Shui, W.M.; Lam, N.; Wong, R.K.;
Bioinformatics and Bioengineering, 2003. Proceedings. Third IEEE Symposium on , 10-12 March 2003
Pages:133 - 140

[\[Abstract\]](#) [\[PDF Full-Text \(350 KB\)\]](#) [IEEE CNF](#)**4 CBS: a concept-based sequencer for soundtrack composition**

Jewell, M.O.; Nixon, M.S.; Prugel-Bennett, A.;
Web Delivering of Music, 2003. 2003 WEDELMUSIC. Proceedings. Third International Conference on , 15-17 Sept. 2003
Pages:105 - 108

[\[Abstract\]](#) [\[PDF Full-Text \(265 KB\)\]](#) [IEEE CNF](#)**5 Database strategies for genetic information and biological data**

Dewey, F.;
Molecular, Cellular and Tissue Engineering, 2002. Proceedings of the IEEE-EMBS
Special Topic Conference on , 6-9 June 2002
Pages:198

[\[Abstract\]](#) [\[PDF Full-Text \(146 KB\)\]](#) [IEEE CNF](#)

6 A database federation platform for gene chips and the human genome database

Fu, B.; Zhang, S.; Chuang, W.; Dewey, C.F., Jr.;
Engineering in Medicine and Biology Society, 2001. Proceedings of the 23rd Annual
International Conference of the IEEE , Volume: 4 , 25-28 Oct. 2001
Pages:3696 - 3699 vol.4

[\[Abstract\]](#) [\[PDF Full-Text \(483 KB\)\]](#) [IEEE CNF](#)

7 An XML application for genomic data interoperation

Kei-Hoi Cheung; Yang Liu; Kumar, A.; Snyder, M.; Gerstein, M.; Miller, P.;
Bioinformatics and Bioengineering Conference, 2001. Proceedings of the IEEE 2nd
International Symposium on , 4-6 Nov. 2001
Pages:97 - 103

[\[Abstract\]](#) [\[PDF Full-Text \(166 KB\)\]](#) [IEEE CNF](#)

8 GeneCards/spl trade/ 2002: an evolving human gene compendium

Safran, M.; Solomon, I.; Shmueli, O.; Lapidot, M.; Shen-Orr, S.; Adato, A.; Ben-Dor, U.; Esterman, N.; Rosen, N.; Peter, I.; Olander, T.; Chalifa-Caspi, V.; Lancet, D.;
Bioinformatics Conference, 2002. Proceedings. IEEE Computer Society , 14-16 Aug.
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1 [Artificial intelligence approaches to software engineering: Using genetic algorithms and coupling measures to devise optimal integration test orders](#)

Lionel C. Briand, Jie Feng, Yvan Labiche

July 2002 **Proceedings of the 14th international conference on Software engineering and knowledge engineering**

Full text available: [pdf\(94.62 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

We present here an improved strategy to devise optimal integration test orders in object-oriented systems. Our goal is to minimize the complexity of stubbing during integration testing as this has been shown to be a major source of expenditure. Our strategy to do so is based on the combined use of inter-class coupling measurement and genetic algorithms. The former is used to assess the complexity of stubs and the latter is used to minimize complex cost functions based on coupling measurement. Us ...

Keywords: genetic algorithms, integration order, integration testing, object-oriented software engineering

2 [WSQ/DSQ: a practical approach for combined querying of databases and the Web](#)

Roy Goldman, Jennifer Widom

May 2000 **ACM SIGMOD Record , Proceedings of the 2000 ACM SIGMOD international conference on Management of data**, Volume 29 Issue 2

Full text available: [pdf\(223.65 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present WSQ/DSQ (pronounced "wisk-disk"), a new approach for combining the query facilities of traditional databases with existing search engines on the Web. WSQ, for *Web-Supported (Database) Queries*, leverages results from Web searches to enhance SQL queries over a relational database. DSQ, for *Database-Supported (Web) Queries*, uses information stored in the database to enhance and explain Web searches. This paper focuses primarily on WSQ, describing a simple, lo ...

3 [Interactive manipulation of rigid body simulations](#)

Jovan Popović, Steven M. Seitz, Michael Erdmann, Zoran Popović, Andrew Witkin

July 2000 **Proceedings of the 27th annual conference on Computer graphics and interactive techniques**

Full text available: [pdf\(886.24 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Physical simulation of dynamic objects has become commonplace in computer graphics because it produces highly realistic animations. In this paradigm the animator provides few physical parameters such as the objects' initial positions and velocities, and the simulator automatically generates realistic motions. The resulting motion, however, is difficult to

control because even a small adjustment of the input parameter can drastically affect the subsequent motion. Furthermore, the animator o ...

Keywords: animation with constraints, physically based animation

4 Archiving scientific data

Peter Buneman, Sanjeev Khanna, Keishi Tajima, Wang-Chiew Tan

March 2004 **ACM Transactions on Database Systems (TODS)**, Volume 29 Issue 1

Full text available:  [pdf\(319.01 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Archiving is important for scientific data, where it is necessary to record all past versions of a database in order to verify findings based upon a specific version. Much scientific data is held in a hierarchical format and has a key structure that provides a canonical identification for each element of the hierarchy. In this article, we exploit these properties to develop an archiving technique that is both efficient in its use of space and preserves the continuity of elements through versions ...

Keywords: Keys for XML

5 Multi Relational Data Mining (MRDM): Scalability and efficiency in multi-relational data mining

Hendrik Blockeel, Michèle Sebag

July 2003 **ACM SIGKDD Explorations Newsletter**, Volume 5 Issue 1

Full text available:  [pdf\(1.61 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Efficiency and Scalability have always been important concerns in the field of data mining, and are even more so in the multi-relational context, which is inherently more complex. The issue has been receiving an increasing amount of attention during the last few years, and quite a number of theoretical results, algorithms and implementations have been presented that explicitly aim at improving the efficiency and Scalability of multi-relational data mining approaches. With this article we attempt ...

6 Simulation education: Interactive Web-based animations for teaching and learning

Michael Syrjakow, Joerg Berdux, Helena Szczerbicka

December 2000 **Proceedings of the 32nd conference on Winter simulation**

Full text available:  [pdf\(615.67 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Web-based study resources can be viewed as a basic requirement in order to remain a competitive player on a more and more globalised educational market. For that reason it is getting increasingly important for universities to supplement offered lectures with additional Web-based learning material. In this paper we focus on interactive multimedia elements like computer animations and simulations, which can be used by students for individual experimentation. Such supplementary material represents ...

7 Writing the web: Mining topic-specific concepts and definitions on the web

Bing Liu, Chee Wee Chin, Hwee Tou Ng

May 2003 **Proceedings of the twelfth international conference on World Wide Web**

Full text available:  [pdf\(245.66 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Traditionally, when one wants to learn about a particular topic, one reads a book or a survey paper. With the rapid expansion of the Web, learning in-depth knowledge about a topic from the Web is becoming increasingly important and popular. This is also due to the Web's convenience and its richness of information. In many cases, learning from the Web may even be essential because in our fast changing world, emerging topics appear constantly and rapidly. There is often not enough time for someone ...

Keywords: definition mining, domain concept mining, information integration, knowledge compilation, web content mining

8 Research session: data warehousing and archive: Archiving scientific data

Peter Buneman, Sanjeev Khanna, Keishi Tajima, Wang-Chiew Tan

June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data**

Full text available:  pdf(1.27 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present an archiving technique for hierarchical data with key structure. Our approach is based on the notion of timestamps whereby an element appearing in multiple versions of the database is stored only once along with a compact description of versions in which it appears. The basic idea of timestamping was discovered by Driscoll *et. al.* in the context of persistent data structures where one wishes to track the sequences of changes made to a data structure. We extend this idea to deve ...

9 A platform for the description, distribution and analysis of genetic polymorphism data

Greg D. Tyrelle, Garry C. King

January 2003 **Proceedings of the First Asia-Pacific bioinformatics conference on Bioinformatics 2003 - Volume 19**

Full text available:  pdf(174.59 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper we suggest the requirements for an open platform designed for the description, distribution and analysis of genetic polymorphism data. This platform is discussed in terms of our implementation of a phenotypic prediction pipeline with general application to the understanding of genetic variation. The current state of polymorphism data storage and distribution has several recognised deficiencies. These include the lack of a shared data model and low overlap between databases. To move ...

Keywords: RDF, SNP, XML, database, distributed, web services

10 Extending performance approaches to new application domains: An optimization framework for web farm configuration

David Bartholomew Stewart, Efstatios Papaefstathiou, Jonathan Hardwick

July 2002 **Proceedings of the third international workshop on Software and performance**

Full text available:  pdf(220.16 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

A common problem that sales consultants face in the field is the selection of an appropriate hardware and software configuration for web farms. Over-provisioning means that the tender will be expensive while under-provisioning will lead to a configuration that does not meet the customer criteria. Indy is a performance modeling environment which allows developers to create custom modeling applications. We have constructed an Indy-based application for defining web farm workloads and topologies. T ...

Keywords: design, experimentation, indy, infrastructures, measurement, modeling, optimization, performance, simulation

11 Scalable algorithms for mining large databases

Rajeev Rastogi, Kyuseok Shim

August 1999 **Tutorial notes of the fifth ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available:  pdf(4.11 MB)

Additional Information: [full citation](#), [references](#), [index terms](#)

12 Oracle's technology for bioinformatics and future directions

Bruce Blackwell, Siva Ravada

January 2003 **Proceedings of the First Asia-Pacific bioinformatics conference on Bioinformatics 2003 - Volume 19**

Full text available: [pdf\(74.48 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The Oracle relational database management system, with object-oriented extensions and numerous application-driven enhancements, plays a critical role worldwide in managing the exploding volumes of bioinformatics data. There are many features of the Oracle product which support the bioinformatics community directly already and there are several features that could be exploited more thoroughly by users, service vendors, and Oracle itself to extend that level of support. This paper will present an ...

Keywords: bioinformatics, database, extensibility, oracle

13 A new approach to protein structure and function analysis using semi-structured databases

William M. Shui, Raymond K. Wong, Stephen C. Graham, Lawrence K. Lee, W. Bret Church
January 2003 **Proceedings of the First Asia-Pacific bioinformatics conference on Bioinformatics 2003 - Volume 19**

Full text available: [pdf\(144.54 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The development of high-throughput genome sequencing and protein structure determination techniques have provided researchers with a wealth of biological data. Integrated analysis of such data is difficult due to the disparate nature of the repositories used to store this biological data and of the software used for its analysis. This paper presents a framework based upon the use of semi-structured database management systems that would provide an integrated interface for the collection, storage ...

14 Social networks and trust: Searching social networks

Bin Yu, Munindar P. Singh
July 2003 **Proceedings of the second international joint conference on Autonomous agents and multiagent systems**

Full text available: [pdf\(233.18 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A referral system is a multiagent system whose member agents are capable of giving and following referrals. The specific cases of interest arise where each agent has a user. The agents cooperate by giving and taking referrals so each can better help its user locate relevant information. This use of referrals mimics human interactions and can potentially lead to greater effectiveness and efficiency than in single-agent systems. Existing approaches consider what referrals may be given and treat the ...

Keywords: knowledge management, referral systems, social networks

15 Adaptation/load balancing: Resource-aware exploration of the emergent dynamics of simulated systems

Sven A. Brueckner, H. Van Dyke Parunak
July 2003 **Proceedings of the second international joint conference on Autonomous agents and multiagent systems**

Full text available: [pdf\(261.47 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The emerging science of simulation enables us to explore the dynamics of large and complex systems even if a formal representation and analysis of the system is intractable and a construction of a real-world instantiation for the purpose of experimentation is too expensive. A computer simulation model can be run for many more configurations and the accumulated observations deepen our understanding of the system's operation, but it is very important that we have tools that help us manage the huge ...

Keywords: graph coloring, multi-agent coordination, phase change, search, simulation, system dynamics, tools and methods

16 Web and e-business application: Application run time estimation: a quality of service metric for web-based data mining services

Shonali Krishnaswamy, Seng Wai Loke, Arkady Zaslavsky

March 2002 **Proceedings of the 2002 ACM symposium on Applied computing**

Full text available:  [pdf\(685.04 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The emergence of Application Service Providers (ASP) hosting Internet-based data mining services is being seen as a viable alternative for organisations that value their knowledge resources but are constrained by the high cost of data mining software. Response time is an important Quality of Service (QoS) metric for web-based data mining service providers. The ability to estimate the response time of data mining algorithms apriori benefits both clients and service providers. The advantage for th ...

Keywords: application run time estimation, data mining e-services, quality of service, rough sets

17 Keynote address: Visualization challenges for a new cyberpharmaceutical computing paradigm

Russell J. Turner, Kabir Chaturvedi, Nathan J. Edwards, Daniel Fasulo, Aaron L. Halpern, Daniel H. Huson, Oliver Kohlbacher, Jason R. Miller, Knut Reinert, Karin A. Remington, Russell Schwartz, Brian Walenz, Shibu Yooseph, Sorin Istrail

October 2001 **Proceedings of the IEEE 2001 symposium on parallel and large-data visualization and graphics**

Full text available:  [pdf\(3.07 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In recent years, an explosion in data has been profoundly changing the field of biology and creating the need for new areas of expertise, particularly in the handling of data. One vital area that has so far received insufficient attention is how to communicate the large quantities of diverse and complex information that is being generated. Celera has encountered a number of visualization problems in the course of developing tools for bioinformatics research, applying them to our data generation ...

18 Information delivery systems: an exploration of Web pull and push technologies

Julie E. Kendall, Kenneth E. Kendall

April 1999 **Communications of the AIS**

Full text available:  [pdf\(658.33 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

19 Knowledge and representation: Acquisition, representation, query and analysis of spatial data: a demonstration 3D digital library

Jeremy Rowe, Anshuman Razdan, Arleyn Simon

May 2003 **Proceedings of the third ACM/IEEE-CS joint conference on Digital libraries**

Full text available:  [pdf\(7.27 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The increasing power of techniques to model complex geometry and extract meaning from 3D information create complex data that must be described, stored, and displayed to be useful to researchers. Responding to the limitations of two-dimensional (2D) data representations perceived by discipline scientists, the Partnership for Research in Spatial Modeling (PRISM) project at Arizona State University (ASU) developed modeling and analytic tools that raise the level of abstraction and add semantic val ...

Keywords: WWW Applications, digital library, geometric modeling, image databases, information visualization, physically based modeling, scientific visualization, shape recognition

20 Multi Relational Data Mining (MRDM): State of the art of graph-based data mining

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The need for mining structured data has increased in the past few years. One of the best studied data structures in computer science and discrete mathematics are graphs. It can therefore be no surprise that graph based data mining has become quite popular in the last few years. This article introduces the theoretical basis of graph based data mining and surveys the state of the art of graph-based data mining. Brief descriptions of some representative approaches are provided as well.

Keywords: data mining, graph, graph-based data mining, path, structured data, tree

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